

# Recombinant Human CASP9

Cat. No. CASP9-618H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human CARM1 is produced in *E. coli*.

**Species** Human

**Source** E.coli

**Description** Caspase-9 is an initiator caspase encoded by the CASP9 gene. CASP9 orthologs have been identified in all mammals for which complete genome data are available. Unique orthologs are also present in lizards, lissamphibians, and teleosts. The aspartic acid specific protease caspase-9 has been linked to the mitochondrial death pathway. It is activated during programmed cell death (apoptosis). Induction of stress signalling pathways JNK/SAPK causes release of cytochrome c from mitochondria and activation of apaf-1 (apoptosome), which in turn cleaves the pro-enzyme of caspase-9 into the active form. Once initiated caspase-9 goes on to cleave procaspase-3 & procaspase-7 and which cleave several cellular targets, including poly ADP ribose polymerase.

**Storage** -80°C.

## GENE INFORMATION

**Gene Name** CASP9 caspase 9, apoptosis-related cysteine peptidase [ *Homo sapiens* ]

**Synonyms** CASP9; caspase 9, apoptosis-related cysteine peptidase; RP11-265F14.3, APAF-3, APAF3, CASPASE-9c, ICE-LAP6; CASP-9; ICE-like apoptotic protease 6; apoptotic

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protease MCH-6; apoptotic protease activating factor 3; apoptotic protease-activating factor 3; caspase 9, apoptosis-related cysteine protease; caspase-9; EC 3.4.22.62

**Gene ID** [842](#)

**mRNA Refseq** [NM\\_001229](#)

**Protein Refseq** [NP\\_001220](#)

**MIM** [602234](#)

**UniProt ID** [P55211](#)

**Chromosome Location** 1p36.3-p36.1

**Pathway** Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Colorectal cancer; Huntington"s disease; Pancreatic cancer; Pathways in cancer; Prostate cancer; Small cell lung cancer; VEGF signaling pathway; Viral myocarditis; p53 signaling pathway; Signalling by NGF

**Function** cysteine-type endopeptidase activity; enzyme activator activity; peptidase activity; protein binding

**PDB rendering based on 1jxq.**

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